Recombinant Mouse Egfr protein, His/S-tagged

Cat. No. Egfr-202M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Egfr Protein, was expressed in E. coli with His/S tag.
Species	Mouse
Source	E.coli
Description	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. The protein kinase family is one of the largest families of proteins in eukaryotes, classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. Epidermal Growth factor receptor (EGFR) is the prototype member of the type 1 receptor tyrosine kinases. EGFR overexpression in tumors indicates poor prognosis and is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.
Form	Lyophilized from sterile PBS, pH 7.4
Purity	> 95 % as determined by SDS-PAGE
Storage	Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

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GENE INFORMATION

Gene Name	Egfr epidermal growth factor receptor [Mus musculus]
Official Symbol	Egfr
Synonyms	EGFR; epidermal growth factor receptor; waved 2; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; Wa5; wa2; Erbb; Errp; wa-2; AI552599; 9030024J15Rik;
Gene ID	13649
mRNA Refseq	NM_007912
Protein Refseq	NP_031938
UniProt ID	Q01279
Chromosome Location	11 A2; 11 9.41 cM
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem;
Function	ATP binding; actin filament binding; enzyme binding; epidermal growth factor binding; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; glycoprotein binding; identical protein binding; integrin binding; kinase activity; nucleotide binding; protein binding; protein heterodimerization activity;

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	protein kinase activity; protein kinase binding; protein phosphatase binding; protein tyrosine kinase activity; receptor activity; receptor binding; receptor signaling protein tyrosine kinase activity; signal transducer activity; transferase activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity;

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